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81 Building large scale mosiacs from Landsat data
Lucian Plesea, Joseph Jacob
November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems**
Full text available: pdf(321.79 KB) Additional Information: full citation, abstract, index terms

This paper describes the process and tools used for creating a full resolution seamless Landsat mosaic of the continental U.S. at 30 meters per pixel. The 6-band, 150GB image was built from 428 individual Landsat scenes of the Multi-Resolution Land Characteristics (MRLC) dataset. Custom designed software based on SGI ImageVision framework was developed on JPL supercomputers to accomplish this task as a single step operation, with minimal operator input. Novel techniques were used to deal with ...

Keywords: Landsat, color matching, mosaic, supercomputer

82 Successful Application of Genetic Algorithms to Network Design and Planning
K. F. Poon, A. Conway, G. Wardrop, J. Mellis
October 2000 **BT Technology Journal**, Volume 18 Issue 4
Full text available: Publisher Site Additional Information: full citation, abstract

The optimal design of telecommunications network infrastructure demands consideration of many complex factors such as type, number and position of components and cable paths. The difficulty of producing a consistent and cost-effective solution increases with network size and complexity. A genetic optimisation system, GenOSys, developed at BT, can generate different network configurations and evaluate them rapidly to arrive at an optimal or near-optimal solution. GenOSys has been employed with ...

83 Distributed Spatial Catalog Service on the CORBA Object Bus
Bin Li, Li Zhang
October 2000 **Geoinformatica**, Volume 4 Issue 3
Full text available: Publisher Site Additional Information: full citation, abstract

Spatial catalog service is a necessary component for distributed geographic information. Spatial catalog services provide the capabilities for organizing and managing spatial metadata. Catalog services simplify the process of data discovery in a large spatial database, facilitate data transfer, and help data fusion. This paper presents a software architecture for spatial catalog services. We first discuss the general concept of spatial catalog facilities and the logical model of spatial ...

Keywords: CORBA, distributed object processing, metadata, spatial catalog services

84 Carto BOF meets at SIGGRAPH 2000
Theresa-Marie Rhyne
August 2000 **ACM SIGGRAPH Computer Graphics**, Volume 34 Issue 3
Full text available: pdf(248.60 KB) Additional Information: full citation, index terms

85 Interactive Case-Based Planning for Forest Fire Management
Paolo Avesani, Anna Perini, Francesco Ricci
July 2000 **Applied Intelligence**, Volume 13 Issue 1
Full text available: Publisher Site Additional Information: full citation, abstract, citings

This paper describes an AI system for planning the first attack on a forest fire. This planning system is based on two major techniques, case-based reasoning, and constraint reasoning, and is part of a decision support system called CHARADE. CHARADE is aimed at supporting the user in the whole process of forest fire management. The novelty of the proposed approach is mainly due to the use of a local similarity metric for case-based reasoning and the integration with a constraint solver in cha ...

Keywords: case-based reasoning, constraint satisfaction, learning, local similarity metric, planning, temporal reasoning

86 Towards ITS Map Database Interoperability—Database Error and Rectification
Val Noronha
June 2000 **Geoinformatica**, Volume 4 Issue 2
Full text available: Publisher Site Additional Information: full citation, abstract

One of the impediments to the implementation of ITS is the lack of map database interoperability. Centreline databases are available from a number of sources, but few were designed specifically for ITS. Consequently there are a variety of problems—coordinate inaccuracy, errors of omission and commission, missing or wrong street names, incorrect topology—that are compounded when communicating parties use databases from different vendors. Many ITS applications (e.g., emergency respo ...

Keywords: LRMS, datums, error, location referencing, rubber sheeting, spatial data accuracy, street networks, uncertainty

87 Multivalent documents
Thomas A. Phelps, Robert Wilensky
June 2000 **Communications of the ACM**, Volume 43 Issue 6
Full text available: pdf(631.12 KB) html(40.28 KB) Additional Information: full citation, references, citings, index terms

88 Generating and reintegrating geospatial data
Robert F. Chavez
June 2000 **Proceedings of the fifth ACM conference on Digital libraries**
Full text available: pdf(21.91 KB) Additional Information: full citation, abstract, references, index terms

The process of building a geospatial component to access existing materials in the Perseus Digital Library has raised interesting questions about the interaction between historical and geospatial data. The traditional methods of describing geographic features' names and locations do not provide a complete solution for historical data such as that in the Perseus Digital Library. Very often data sources for a spatial database must be created from the

historical materials themselves.

Keywords: GIS, geography, geospatial integration

89 GIS Software for Measuring Space-Time Accessibility in Transportation Planning and Analysis
Harvey J. Miller, Yi-Hwa Wu
June 2000 **Geoinformatica**, Volume 4 Issue 2

Full text available: Publisher Site Additional Information: full citation, abstract

Transportation systems exist to improve individual accessibility. However, emerging applications of GIS in transportation (GIS-T) and intelligent transportation system (ITS) focus on throughput (the amount of system flow) rather than accessibility. Throughput is related but not equivalent to accessibility. Sensitive transportation planning requires rigorous, realistic and tractable accessibility measures. This paper reports on the development of GIS software that implement space-time accessib ...

Keywords: GIS design, accessibility, space-time, transportation, user interfaces

90 An Integrated Metamodel for Knowledge Representation in Geolibraries
Claudio S. Baptista, Zarine Kemp
May 2000 **Proceedings of the IEEE Advances in Digital Libraries 2000**

Full text available: Publisher Site Additional Information: full citation, abstract, citings

Geolibraries containing large volumes of complex spatiotemporal data occur in a variety of application domains. Considerable effort has gone into the design of metadata standards to enable exchange and sharing of georeferenced data sets. Strategies for federating information stores have to deal with integration at several levels, syntax, structure as well as semantics. This paper describes a generic metamodel for geolibraries It encompasses a conceptually partitioned view of the data space inclu ...

Keywords: Geolibraries, metadata, ontologies, spatiotemporal systems

91 A Distributed Geographic Information System on the Common Object Request Broker Architecture (CORBA)
Fangju Wang
March 2000 **Geoinformatica**, Volume 4 Issue 1

Full text available: Publisher Site Additional Information: full citation, abstract

A distributed geographic information system (distributed GIS) has strengths in system reliability, efficiency, resource sharing, and flexibility for incremental system growth. However, developing a distributed GIS is a challenging task. The major challenges are with generating efficient system-wide query strategies, synchronizing operations executed at different sites, handling heterogeneity, managing transactions, and so on. In this paper, an experimental system is reported. This work is aim ...

Keywords: distributed information system, geographic information system, parallel processing, query optimization, the Common Object Request Broker Architecture (CORBA)

92 An overview of software agent-oriented frameworks
Zakaria Maamar, Bernard Moulin
March 2000 **ACM Computing Surveys (CSUR)**

Full text available: pdf(178.95 KB) Additional Information: full citation, references, index terms

93 Introduction to the computing surveys' electronic symposium on object-oriented application frameworks
Mohamed E. Fayad
March 2000 **ACM Computing Surveys (CSUR)**
Full text available: pdf(75.76 KB) Additional Information: full citation, references, index terms

94 Under the hood of GeoVRML 1.0
Martin Reddy, Lee Iverson, Yvan G. Leclerc
February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML)**
Full text available: pdf(2.98 MB) Additional Information: full citation, abstract, references, citings, index terms

GeoVRML 1.0 provides geoscientists with a rich suite of enabling capabilities that cannot be found elsewhere. That is, the ability to model dynamic 3-D geographic data that can be distributed over the web and interactively visualized using a standard browser configuration. GeoVRML includes nodes for VRML97 that perform this task; addressing issues such as coordinate systems, scalability, animation, accuracy, and preservation of the original geographic data. The implementation is released as ...

Keywords: 3-D geography, GeoVRML, georeferencing, terrain visualization, virtual environments

95 Reports from related meetings: Discovering geographic knowledge in data rich environments: a report on a specialist meeting
Harvey J. Miller, Jiawei Han
January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2
Full text available: pdf(320.50 KB) Additional Information: full citation, abstract

On 18--20 March 1999, a Specialist Meeting on "Discovering geographic knowledge in data-rich environments" was convened under the auspices of the Varenius Project of the National Center for Geographic Information and Analysis (NCGIA). This, workshop brought together a diverse group of researchers and practitioners with interests in developing and applying new techniques for exploring large and diverse geographic datasets. The interaction prior to, during and after the three-day workshop resulted ...

Keywords: geographic data mining, geographic information systems, geographic research, spatio-temporal data mining

96 Taking advantage of design patterns in GIS domain (poster session)
L. Polasek, Arturo Zambrano, S. Gordillo, J. Bazocco, G. Trilla, D. Cano, A. Literas
January 2000 **Addendum to the 2000 proceedings of the conference on Object-oriented programming, systems, languages, and applications (Addendum)**
Full text available: pdf(19.43 KB) Additional Information: full citation, abstract, references, index terms

Geographic Information Systems (GIS) are used to collect, store, analyze and present information describing physical and logical aspects of real world entities. They deal with several areas, such as georeferencing, topology, visualization, representation of continuous information and so on.

Most of GIS applications are hardly adapted to new requirements, like changing of the reference system, integrating vector and raster models, or handling continuous information, among others.

...

Keywords: GIS, design patterns, flexibility, object orientation

97 OOTW impact analysis
Dean S. Hartley, Richard E. Bell, Stephen L. Packard
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 2**
Full text available: pdf(296.65 KB) Additional Information: full citation, references, index terms

98 Requirement Analysis for the Definition of Reusable Spatial Objects
Flavio Bonfatti, Roberto Montanari, Paola Daniela Monari
December 1999 **Geoinformatica**, Volume 3 Issue 4
Full text available: Publisher Site Additional Information: full citation, abstract

Requirement analysis plays a critical role in designing geographical information systems because it aims to capture user informational needs correctly and fully. Proposed analysis and design methodologies either adapt general-purpose approaches to this application field or extend them by introducing specific constructs to better capture the spatial properties of objects. Many of them are based on the object-oriented paradigm; unfortunately, they usually lack expressive power so that a wide ga ...

Keywords: design, modularity, object dynamics, object-oriented model, requirement analysis, reuse, spatial properties

99 Dynamic Geospatial Image Mosaics Using JAVA, JAI, RMI and CORBA
John Hildebrandt, Robert Hollamby
November 1999 **Proceedings of the 32nd International Conference on Technology of Object-Oriented Languages**
Full text available: Publisher Site Additional Information: full citation, abstract

Command, Control, Computers, Communications, Intelligence, and Surveillance (C4ISR) systems make extensive use of geospatial and image based information. Map displays and aerial photography are often used as the backdrop for the display of other information in systems to assist in providing situation awareness. Given the desire to have high-resolution information, the volume and variety of geospatial information is increasing. Both commercial and experimental systems are being developed to mana ...

Keywords: Imagery, GIS, Mosaic, JAVA, JAI, Application, Experience

100 Ontology-driven geographic information systems
Frederico T. Fonseca, Max J. Egenhofer
November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**
Full text available: pdf(67.03 KB) Additional Information: full citation, references, citings, index terms

Keywords: GIS architecture, interoperability, object orientation, ontology

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